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urban HORTICULTURE

UNIVERSITY OF WASHINGTON COLLEGE OF FOREST RESOURCES AUTUMN 2003

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© Oregon State University

Our native Garry oak does not appear to be susceptible to *P. ramorum*.

Phytophthora ramorum...AKA Sudden Oak Death

California oak tree populations have sustained extensive damage from *Phytophthora ramorum*, the fungus-like organism that causes Sudden Oak Death (SOD). Since the disease was first discovered in 1995, devastation has been felt throughout the California coast range as oak trees have died in large numbers. Officials in Washington and Oregon have mounted statewide efforts to prevent the outbreaks that have ravaged California. And although both Washington and Oregon received a scare this year when *P. ramorum* was discovered on nursery stock, the containment efforts thus far have been successful. A bit of luck is also on our side since Washington native oaks appear to be more resistant to the disease than the native oaks and tanoaks of California. However, some red oak species and other non-oak species are susceptible so state officials and growers are watching carefully.

Host Plants Include Rhododendrons and Huckleberries

Thirty eight species of plants are currently known to be susceptible to *P. ramorum* and the list continues to expand. Many species on this list are common garden plants such as bigleaf maple, camellia, Douglas fir, California bay laurel, viburnum, huckleberry and rhododendron (see *http://www.suddenoakdeath.org/* for a complete list of host plants). Although these species may not die from an infection, in some cases symptoms have been severe enough to kill the plant. More significantly, they serve as hosts for the accumulation of *P. ramorum* spores. Wind, rain, or human movement of the infected plants then transfer spores to adjacent, susceptible plants.

Unlike the more common *Phytophthora* species that affect roots, *P. ramorum* manifests its symptoms in shoots, trunks and branches. Cankers, caused by infection in the woody tissue, ooze a reddish-brown to tar-black gummy substance. The cankers may expand to girdle the trunk and reduce nutrient and water flow through the vascular tissue. Other disease organisms or insects may then step in to attack the weakened plant and accelerate the disease progression. Because symptoms may resemble other diseases as well, diagnosis must be confirmed by a pathology laboratory.

In rhododendrons, leaves develop brown-black lesions with indistinct borders, as compared to the sharp black borders attributable to sun damage. With huckleberries, leaf blotches and twig dieback

CENTER for URBAN HORTICULTURE

SPECIAL EVENTS

FORCING, ETC. WITH KATHERINE WHITESIDE

Thursday, October 23 at 7 p.m.
NHS Hall at the Center for Urban Horticulture
Fee: $12. Register in advance to guarantee a seat. 206-685-8033

Join CUH and Smith & Hawken in welcoming East Coast garden writer Katherine Whiteside to Seattle as she presents a lecture on the how-to's of forcing bulbs, branches, and flowers for your winter home. For more information, see the description on page 8.

REMARKABLE TREES OF THE WORLD

lecture by Thomas Pakenham
Thursday, October 30 at 7 p.m.
Graham Visitors Center at Washington Park Arboretum
Fee: $12. Register in advance to guarantee a seat.
206-685-8033

Thomas Pakenham

British historian Thomas Pakenham has spent the last decade investigating the lives of the world's most dramatic trees, many of which are in danger of destruction. His collection of photos and essays is titled *Remarkable Trees of the World.* Anyone who celebrates the diversity and stunning beauty of the world's trees will be awed by this presentation. For more information, see the description on page 8.

THE OLMSTED BROTHERS & THEIR NW PEERS: 1909 - 1941

lecture by David Streatfield
Tuesday, November 19 at 7 p.m.
NHS Hall at the Center for Urban Horticulture
Fee: $12. Register in advance to guarantee a seat. 206-685-8033

This lecture by David Streatfield, landscape historian and Professor of Landscape Architecture at the UW, is another in a continuing series of events in honor of the 100th Centennial of the Olmsted Brothers' design of the Seattle Parks system. For more information, see the description on page 9.

Tip dieback on Douglas Fir.

are observed, as well as dark, shallow cankers on the canes. Unfortunately, there are currently no known preventatives or cures for *P. ramorum*. Infected plant material must be destroyed and not ground up into bark or mulch.

Implications for Washington State

Cooler, wetter climates contribute to the spread of *P. ramorum*, thus the coastal areas of California have been the hardest hit. Seeing that the northwest maritime climate is typically cool and wet, growers in western Washington are on the lookout for this potentially devastating organism. The first sign of it in Washington was observed in June in a nursery in south King County. The rhododendrons on which the disease was found had originated from a Portland-area nursery where, just one month earlier, *P. ramorum* had been detected. Strict quarantines were set up around the disease zone, and all plants within the group where the rhododendrons were located were destroyed. There were a few sighs of relief when subsequent analysis of the diseased rhodies at an Oregon State University lab found that this strain of *P. ramorum* was the European strain and not the strain that is destroying the California oaks.

Native oaks in Washington State apparently do not succumb to *P. ramorum*. Douglas firs may also be spared. One Douglas fir in California got the disease but it was located underneath a California bay laurel, one of the most active host plants. Symptoms were limited to the needles and young shoots. Because of the grave concern among tree farmers as to the potential losses from *P. ramorum*, research is being actively conducted on the susceptibility of economically important northwest trees in monoculture situations such as Christmas tree farms. With rhododendrons and other susceptible species routinely planted in the northwest, it is important that the disease not be allowed to take hold.

Further Information and Diagnosis

Since WSU Extension plant pathology laboratories are not equipped to confirm whether a plant has *P. ramorum*, samples must be sent to a private lab. If you have questions, California, Oregon and Washington all have websites with updated information, contact information and links to other pertinent sites. For information regarding *P. ramorum* in Washington state, visit *http://agr.wa.gov/plantsinsects/diseases/sod/*. See the California Oak Mortality Task Force website at *http://ww.suddenoakdeath.org/* for the most comprehensive information on this disease.

UW's First "Sustainable" Building

During the last decade there has been a movement to reduce the environmental impacts that new buildings have on the planet's resources. Worldwide, buildings are responsible for 40 percent of energy use, 30 percent of raw materials consumed, and 40 percent of solid waste heading to landfills.

This month starts construction of Merrill Hall, the first UW building to apply for LEED™ certification as a "sustainable" building. LEED™ stands for "Leadership in Energy and Environmental Design". It was created by the U. S. Green Building Council as a voluntary national standard for environmentally conscious buildings.

Merrill Hall meets this standard, where possible, by using sustainably certified lumber, recycled doors, windows, and other materials from the old Merrill Hall, naturally ventilating over 50% of the building, and collecting all roof runoff and recirculating it through the irrigation system. Carpets are made from recycled materials. Adhesives, paints, and sealants were selected for their low emittance of volatile chemicals. The roof system reduces heat absorption. Waterless urinals and low-flush toilets reduce water consumption. There are two demonstration systems in the building: a "green roof" to show how plants and soil reduce water runoff and heat buildup when on top of a building, and solar panels that generate "green" electricity.

For more information on green buildings, visit the web site at *www.usgbc.org*, and to learn what's happening locally, visit *http://www.cityofseattle.net/sustainablebuilding/*.

News from CUH and WPA

Photo courtesy of Roozengaarde

Staff Favorites for Bulb Catalogs

Let the Miller Library staff help you find the "best of the best" when it comes to fall 2003 catalogs for bulbs. These are our favorites:

Brent and Becky's Bulbs

Features all kinds of bulbs but specializes in daffodils with an extensive collection. This is their first full-color catalog. Wholesale prices available. Visit *www.brentandbeckysbulbs.com* or phone toll-free at 877-661-2852.

McClure & Zimmerman

Excellent for species tulips, daffodils and crocus and other collector's bulbs that are not widely available. Good selection of popular hybrids, too. Visit *www.mzbulb.com* or phone toll-free at 800-883-6998.

Old House Gardens

Notable for personalized service and knowledgeable staff. Gardeners seeking older varieties and heirloom bulbs not generally available will find them here. Full-color catalog. Visit their web site at *www.oldhousegardens.com* or phone 734-995-1486.

RoozenGaarde

Located in La Conner with many varieties locally grown. You can have your order shipped or make a day trip for pick-up. It's also a source for cut flowers. Full color catalog. *www.tulips.com* or phone toll-free 866-488-5477.

John Scheepers Beauty of Bulbs

Comprehensive list of modern varieties of popular and many lesser known bulbs with color photos of everything. *www.johnscheepers.com* or phone toll-free at 860-567-0838.

See Miller Library Website for New Acquisitions

New acquisitions are part of the life blood of the Miller Library collection. Use the library website, *www.millerlibrary.org*, to see lists of new books, videos and CD-ROMs at the library. From the home page, click on **Collections/Services**, then on **New Acquisitions** (located in the left column). The lists are grouped so you can quickly find what fresh titles are available to check out from the Lending Collection, or the latest great resources for researching in the Reference Collection.

Pinetum Improvements at the Arboretum

Work has commenced on Phase II of the Master Plan. Efforts will be focused on the Pinetum and will include: continued collection and removal of native trees; a new trail alignment survey; transplanting of valuable collections into appropriate locations and new plantings of conifers.

Seattle Youth Garden Works Hosts Second Annual Fundraising Auction

Ciscoe Morris will again be the featured guest at the second annual Seattle Youth Garden Works' (SYGW) Auction on Sunday, November 9. Tickets are $50 with the fun beginning at 4:30 p.m. at the Shoreline Center. Enjoy great food, music, free raffle tickets and a chance to bid on fabulous items, many with a horticultural theme. For more information or to donate an item, phone 206-525-1213, ext. 4132. Proceeds will benefit SYGW, a job training program for homeless and at-risk youth. CUH provides greenhouse and outdoor growing space to this important community program.

Plant Answer Line Questions

Continue to send your puzzling plant questions to the Miller Library Plant Answer Line. Here are a recent sampling of questions from gardeners:

QUESTION: My new clematis was doing very well but about 70% of it suddenly got droopy. The Master Gardeners said it has "clematis wilt." What is that and how can I save the plant?

ANSWER: Clematis wilt is the most prevalent problem of this genus. According to Dr. John Howells, "The fungus *Ascochyta clematidina* is present in soil and plants." When the right temperature and humidity is reached, the fungus becomes active and strikes the clematis in a characteristic fashion...The unfortunate gardener goes to bed admiring a healthy green plant and wakes up in the morning only to find that the stem or stems are hanging limply. Attacks are much more common in the first two years; when the clematis develops a woody stem it seems that the fungus is unable to penetrate. For detailed care of clematis wilt, consult *A Plantsman's Guide to Clematis*, by Dr. John Howells, 1990.

QUESTION: Would the burnt dust from a charcoal barbecue help enrich the soil in my garden? It seems like a good way to recycle my barbecue refuse.

ANSWER: Wood ash is an excellent source of potassium, one of the three major nutrients needed for plant growth along with nitrogen and phosphorous. Wood ash may be safely added to compost piles in thin layers. Charcoal (including mesquite) is just a partially burned form of wood, and as long as no other chemicals have been added, barbecue ash should be a safe compost addition. Check labels on packaging to be sure. Avoid using ashes which are derived from burning glossy magazines or other treated papers such as photo paper. These papers may contain heavy metals that leave residuals in the ash.

Plant Answer Line

The Plant Answer Line is open from 9 a.m. until 5 p.m. Monday through Friday. Call UW PLANT, 206-897-5268, or e-mail your question to: *hortlib@u.washington.edu*

QUESTION: Can I put manure right into my garden, or does it need to be aged first?

ANSWER: According to *Rodale's All-New Encyclopedia of Organic Gardening*, animal manure by itself is not a completely balanced fertilizer, either chemically or biologically. There may be too much urine and too little cellulose, or vice versa. When manure is added directly to the soil, it generally releases highly soluble nitrates that behave similarly to chemical fertilizers. Ammonia is released as well, potentially burning the plant roots and disrupting seed germination. When composted first, manure's imbalances can be rectified and the manure itself can be digested and used more quickly than if added before composting."

QUESTION: My *Chamaecyparis* has been diagnosed with *Phytophthora*. What should I do about it?

ANSWER: It is also known as '*Phytophthora* root death.' No chemical treatments are available for garden use. The likelihood of attack can be minimized by buying plants only from reputable nurseries and avoiding any nurseries at which debilitated or browned cypresses and other trees are evident. Never transplant from infested into clean land. Avoid excessive watering, manuring or mulching of susceptible plants. Do not allow hollows to form around stem bases (slope the soil away from the base of trees and shrubs). Do not plant into soilless compost or similar medium artificially introduced as pockets into heavy soils as these will rapidly become waterlogged; and replace affected plants by more tolerant species. In badly contaminated nurseries, a change to container production of plants is usually the only solution.

Arboretum Foundation

For recorded information on Arboretum events and programs, please call 206-543-8800 or visit the Foundation website at: *www.arboretumfoundation.org*

Fall Bulb and Plant Sale
Sunday, October 5, 10 a.m. to 3 p.m.
Members Pre-Sale, Saturday, October 4, 1 to 3 p.m. Hundreds of bulb varieties, including favorites and hard-to-find. Shrubs and more for fall planting. Garden pottery from ChenRagen.

Celebrate the Reds at Wells-Medina
Saturday, October 11
Taste wines, enjoy fine regional foods and explore all that Wells-Medina has to offer. Call 425-454-1853 for hours and information.

Ongoing Plant Sales onTuesdays from 10 a.m. to noon, Wednesdays 10 a.m. to 2 p.m., and second Saturdays from 10 a.m. to 2 p.m.

Greens Galore
Saturday, December 6, 10 a.m. to 3 p.m.
Members Pre-Sale and Tea, Friday, December 5. Phone 206-325-4510 for hours. Fresh greens and botanical delights for decorating. Hand-made wreaths and gifts for the holidays.

Hort Tidbits

Gardener's Gift Idea
Searching for that perfect birthday or holiday gift? Give a CUH Gift Certificate, good towards registration for a class, talk, or tour. Simply phone 206-685-8033 and order over the phone for the gardener in your life who wants to keep learning.

Northwest Horticultural Society Lectures

Building the Contemporary Garden
Steve Martino
Wednesday, October 8, 7:15 p.m.,
NHS Hall, CUH

Trees for Residential Gardens
Douglas Justice
Wednesday, November 12, 7:15 p.m.
NHS Hall, CUH

Reducing Pesticides in Public Places
An informative booklet is now available that describes the successful application of Integrated Pest Management (IPM) strategies at ten Puget Sound area sites, including Seattle University, City of Seattle and Thurston County. This booklet, compiled by the Washington Toxics Coalition and available for $5, gives examples of positive changes being made, and also serves as a valuable source of resource information. Call 206-632-1545 ext. 7 to obtain your copy, or visit their website at *http://www.watoxics.org* and download the information for free.

volunteer NEWS AND OPPORTUNITIES

Union Bay Opportunities:

CUH Reception Desk Volunteers Needed:

Interact with visitors, faculty, staff, and students while helping out with phone calls, light office work, and answering general questions. No experience necessary. There are several 3 and 4 hour weekday shifts available. Call Ray Larson at 206-616-9113.

Volunteer Dorothy Crandall inventories herbarium specimens.

Union Bay Gardeners Needed

Volunteers are needed to maintain the Union Bay Gardens located at the Center for Urban Horticulture. The gardens contain a variety of plant types ranging from vines and herbaceous perennials to native woody shrubs and trees. Seasonal maintenance tasks are performed throughout the year rain or shine, so workers should dress appropriately. Work may be performed individually or in small groups 3 to 4 hours per week. Please contact Barbara Selemon at 206-685-2613.

Rare Plant Seed Collectors and Processors:

We are looking for volunteers to clean and process seed for the new Miller Seed Vault. Processors need patience and attention to detail. If interested, phone the Rare Care Program Manager at 206-616-0780 or e-mail *rarecare@u.washington.edu.*

Seattle Youth Garden Works

Enthusiastic adults needed to work with youth crews at garden sites in the University District and South Park. Have fun planting, maintaining and harvesting crops while providing positive role models for homeless and at-risk youth. We are also looking for larger groups of volunteers to participate in occasional work parties, advisory board members and volunteers for our upcoming fundraising auction. For more information, contact the volunteer coordinator at 206-525-1213, ext. 3133 or e-mail *volunteer@sygw.org.*

Arboretum Opportunities:

Volunteers needed at the Arboretum

Volunteers provide a vital source of support caring for Arboretum plant collections and managing invasive weeds. Become a weekly gardener, helping with varied tasks that change with the season. Community service groups are also encouraged to lend a hand in one of many areas needing attention. Many hands make light work. Work parties can be scheduled throughout the year. For information, please phone David Zuckerman at 206-616-4050.

WPA Information Desk

Greet visitors, share your enthusiasm, answer questions, and interact with staff and other volunteers in the stimulating environment at the Arboretum. Shift times are either half or whole days once a month. Phone Brett Mercier at 206-543-8800.

Volunteer Guides for Fall Educational Tours

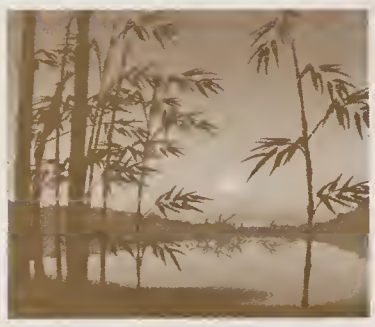
Washington Park Arboretum becomes nature's classroom through Saplings School Programs, introducing students in grades K-8 to plant science and Arboretum plant collections. Volunteer guides lead Saplings educational tours, offered Monday through Friday from 10 to 11:30 a.m. Saplings guides are asked to commit to lead one program per week for 10 weeks in the fall. New guides are required to attend one 3-hour training session between September 15 and 19. All levels of experience are welcome! For information and application forms, phone 206-543-8801.

classes AND PROGRAMS

Forcing, Etc. with Katherine Whiteside

DATE & TIME: *Thursday, October 23 at 7 p.m.*
SPEAKER: *Katherine Whiteside, garden writer*
LOCATION: *NHS Hall, CUH*
FEE: *$12; pre-registration recommended*

Katherine Whiteside, columnist for *House Beautiful* and author of three award-winning books, will lecture on the wonders (and how-to's) of forcing bulbs, branches and flowers indoors. Imagine great sprays of forsythia adding spring sunshine to a room in February, or pots of sweetly fragrant "Orange Queen" narcissus at the height of winter. Correct placement and a few easy steps are all that is needed to bring inside in winter the glory and fragrance of a garden in bloom. Her book, *Forcing, Etc.,* will be available for purchase and signing. This lecture is sponsored by Smith and Hawken.



The Beauty of Bamboo

DATE & TIME: *Saturday, October 25, 10 a.m. to noon*
INSTRUCTOR: *Mary Palmer, bamboo horticulturist*
LOCATION: *Douglas Classroom, CUH*
FEE: *$25 general public; $22 Arboretum Foundation Members; pre-registration required*

Bamboo is popular today as gardeners discover that it is not the mysterious ogre it was once thought to be. Mary Palmer, staff member at Bamboo Gardens of Washington since 1994, will cover the myriad of possibilities for bamboo in the garden. Learn from a hands-on demo how bamboo fences, trellises and screens can be made and woven into the fabric of your garden. Mary will show bamboo species that deserve to be planted in northwest gardens, along with instructions on how to control its invasive tendencies.

Remarkable Trees of the World

DATE & TIME: *Thursday, October 30 at 7 p.m.*
SPEAKER: *Thomas Pakenham, British historian and author*
LOCATION: *Graham Visitors Center, WPA*
FEE: *$12; pre-registration recommended*

"Awesome" and "astounding" are the words that come to mind when perusing Thomas Pakenham's book titled *Remarkable Trees of the World.* From the ginkgo tree planted near a Buddhist temple in 1232, to the great plane tree of Hippocrates in Greece, to the giant sequoias of the West Coast, Thomas traveled the globe to capture these stunning natural monuments. He celebrates in words and pictures the diversity and beauty of the world's trees. Books will be available for purchase and signing.

Thomas Pakenham

Gardening Here: How Mother Nature Shapes our Gardens

DATE & TIME: *Thursday, November 6, 7 to 9 p.m.*
INSTRUCTOR: *Sue Nicol, Horticulturist and CUH Outreach Coordinator*
LOCATION: *Douglas Classroom, CUH*
FEE: *$25 general public; $22 Arboretum Foundation members; pre-registration required*

Puget Sound gardens are shaped by the land and climate around us. Learning to know a garden's unique microclimate will help you make good decisions when selecting plants, managing soil or even knowing when to plant in spring. Horticulturist Sue Nicol spent 17 years at Woodland Park Zoo and was the lead horticulturist when the tropical rain forest took shape. She will provide some surprising insights about where we live and how our gardens grow. Topics will include our soil's glacial origins, how to interpret those climate maps, and making the best of Seattle's hills and valleys.

Seasonal Soups from Kaspar

DATE & TIME: *Saturday, November 8 at 10 a.m.*
INSTRUCTOR: *Kaspar Donier, owner of Kaspar's*
LOCATION: *Douglas Classroom, CUH*
FEE: *$40*

Celebrate the autumn season's bounty with one of the top chefs in the Northwest-Kaspar Donier. A four-time nominee for the James Beard Award as America's Best Chef-Northwest, Kaspar and his wife Nancy run Kaspar's, a Queen Anne restaurant recognized since 1989 for using fresh, local ingredients in magical combinations. The Doniers are passionate gardeners as well, often cooking with organic herbs, fruits and vegetables harvested from their own garden. At this cooking demonstration, Kaspar will show us how to create soups from the root crops that are typically harvested in the autumn. Come enjoy a feast for all of the senses.

Native Tree Walk

DATE & TIME: *Saturday, November 15, 10 a.m. to noon*
INSTRUCTOR: *Scott Conner, garden consultant*
LOCATION: *meet at Graham Visitors Center, WPA*
FEE: *$25 general public; $22 AF members*
Pre-registration required

Just 150 years ago, the Pacific Northwest was covered with native trees and their companions. They still tower around us, but we are often oblivious to their presence or their usefulness. Scott Conner, host of a daily call-in gardening show on KKNW, will lead this native tree walk in the Arboretum. He will pass along his tips for easy ID'ing of native firs, spruces, cedars and hemlocks, including using the mouse tail on Douglas fir pinecones as a marker. Come dressed for the weather and wear good walking shoes.

Garden-Inspired Holiday Decor

DATE & TIME: *Tuesday, November 11, 7 to 9 p.m.*
INSTRUCTOR: *Lorene Forkner, owner of Fremont Gardens*
LOCATION: *Douglas Classroom, CUH*
FEE: *$25 general public; $22 Arboretum Foundation members; pre-registration required.*

Spruce up your home for the holidays - Fremont Gardens style! Winner of Best of Show at the 2003 NW Flower and Garden Show, Lorene Forkner will help you celebrate the winter holidays with fragrant greens, delicate seed heads and fragile blooms and berries just waiting to be gathered from the garden. She will demonstrate how to combine the bounty of your garden with seasonal bulbs to create a uniquely Northwest holiday setting.

The Olmsted Brothers and Their Northwest Peers, 1909-1941

DATE & TIME: *Wednesday, November 19 at 7 p.m.*
SPEAKER: *David Streatfield, Professor of Landscape Architecture at UW*
LOCATION: *NHS Hall, CUH*
FEE: *$12*

As part of the year-long celebration of the Olmsted legacy in Seattle, Professor David Streatfield will speak on the Olmsted brothers' influence in the private gardens of Seattle. He will cover gardens designed between 1909 and 1941 and will compare the Olmsted designs with that of local landscape designers such as Otto Holmdahl, F. C. Cole, Charles Adams Platt, Lord and Schryver, and John Yeon. This is a unique opportunity to learn how the Olmsteds and others shaped the nonpublic spaces in our city's history.

Register by phone using Visa or MasterCard, 206-685-8033. To register by mail, complete and send in the registration form on page 15.

Introduction to Landscape Design

DATE & TIME: *Three-part course: December 2 and 4 from 7 to 9 p.m. and December 6 from 9 a.m. to noon*
INSTRUCTOR: *Keith Geller, Landscape Architect*
LOCATION: *Douglas Classroom, CUH*
FEE: *$65*

This is an introductory course on the principles and concepts of landscape design. It is intended for students at all levels of expertise and includes homework assignments and a field trip in addition to the lectures. Keith Geller is a Seattle landscape architect who has taught the very popular Landscape Design Basics class for years for CUH. This class is a "lite" version of that popular class.

practical gardening lectures

These lectures and demonstrations are planned jointly with the WSU Cooperative Extension Community Horticulture Program and EPA Region 10. They are presented by Cooperative Extension staff and experienced WSU Master Gardeners.

Mosquitoes, Diseases, and You

DATE & TIME: *Thursday October 16, 7 to 8:30 p.m.*
INSTRUCTOR: *Sharon Collman, IPM Coordinator, EPA Region 10*
LOCATION: *Douglas Classroom, CUH*
FEE: *$10; pre-registration required*

Join us for a lively look at mosquitoes and the diseases they carry, specifically West Nile Virus and St. Louis Encephalitis, that have recently shown up in Washington. Protect yourself and family at home and abroad by learning how to manage mosquito habitat and learn the pros and cons of mosquito repellants and gimmicks.

To Clip or Not to Clip

DATE & TIME: *Tuesday, October 21, 7 to 8:30 p.m.*
INSTRUCTOR: *Mary Robson, Extension Agent, King and Pierce County*
LOCATION: *Douglas Classroom, CUH*
FEE: *$10; pre-registration required*

Do you find yourself wandering aimlessly through your garden with shears in hand, comtemplating an attack on the hardy fuchsia or the daylilies? Then come hear Mary Robson, extension agent extraordinaire, discuss the hows and whys of those garden plants (perennials, grasses and shrubs) that enjoy fall haircuts. Other plants will want to stay shaggy - she'll cover those, too.

The Allure of Alliums

DATE & TIME: *Wednesday, November 5, 7 to 8:30 p.m.*
INSTRUCTOR: *Dave Kingery, Master Gardener*
LOCATION: *Douglas Classroom, CUH*
FEE: *$10; pre-registration required*

Fall is the season for alliums, whether harvesting and roasting the tasty bulbs or planting next year's crop. Our northwest climate is ideal for growing alliums and Dave Kingery grows them all - leeks, shallots, garlic and onions. He will discuss his favorite varieties, how and when to plant, and the finer points of soil and fertilizer requirements.

youth and family programs

For more information or to schedule the following programs, contact the Washington Park Arboretum Education Office, weekdays at 206-543-8801.

Self-Guided Family Packs

Investigate the wonders of the Arboretum using our self-guided pack program. Arboretum packs come with easy-to-follow activities, maps, field guides, games and more. Family Packs are designed for groups of five or less. They are available year-round from 10 a.m. to 3 p.m. at the Graham Visitors Center Front Desk. $5 fee for two-hour rental. FREE to Arboretum Foundation Members and Arboretum Guides.

FAMILY TREE PACK (Grades K-3) Investigate the wonders of a living museum. Focus on leaves, buds, flowers, fruit and bark. Learn about pollination by doing it yourself!

WETLAND WONDERS (Grades K-3) Take a safari to Foster and Marsh Islands along the Waterfront Trail. Go on a wetland scavenger hunt, collect aquatic insects and play games. Pack comes with binoculars!

Saplings School Programs

Washington Park Arboretum is the venue for Saplings School Programs, educational tours for students in grades K-8.The 90-minute programs are held Monday through Friday mornings during the school year. Cost is $2.50 per child (chaperones are free). Saplings program curricula are aligned with the Washington State Essential Academic Learning Requirements. Please call to reserve a date at least three weeks in advance.

Discover Plants: Grades K-2

Younger students gain exposure to the wonderful world of plants by using characteristics to categorize living things. Students will compare and contrast similarities between plants and people as they learn what each needs to grow and be healthy.

Wetland Ecology Walk: Focus on Habitats Grades K-3

Explore the flora and fauna on Foster Island as you learn about who lives in the Arboretum's unique urban wetland. Learn first-hand about various habitats around the Arboretum.

Life Cycle of a Plant: Fantastic Fall Grades 3-6

As seasons change, so do the plants around us. Learn how fallen leaves cycle the nutrients back to the trees. Explore seed production and dispersal, photosynthesis and the reason for leaves changing color. Discover the secrets of autumn as you learn about the life cycle of plants from flower to fruit.

Wetland Ecology Walk: Focus on Ecosystems Grades 4-8

Investigate the complex world of a wetland ecosystem. Foster Island provides a unique opportunity for students to study an urban wetland up close and discover the importance and functions of wetlands.

Saplings (continued)

Native Plants and People
Grades 3-8
What is a native plant? Students will learn to identify several northwest native plants. Discover the historical importance of native plants to the Coast Salish people. Students will learn how native plants were used in daily life through discussion, hands-on artifacts and role-playing activites.

Arboretum Explorer Packs

Great for teachers, scouts, camps, daycare and other youth groups. Lead your own group on an exploration of this unique living museum. Explorer Packs are filled with fun activities, games, maps and equipment for investigating. Explorer Packs are available year-round from 10 a.m. to 3 p.m. with a required two-week pre-registration. A two-hour rental fee is $15. Explorer Packs are designed for 15 children working individually or for 30 children working in pairs.

TREE-TECTIVE Come sleuthing in the Arboretum and learn amazing facts about trees. This pack includes hand lenses, magnifiers, field guides, games and even "tree cookies!"

MARSH MADNESS Investigate the amazing critters and plants that make the wetland their home. This pack includes dip nets, aquaria, field guides, scavenger hunts and more.

AUTUMN ADVENTURES Focus on leaf color change, tree adaptations, fossil and leaf identification.

arboretum adult tours

Enjoy the seasonal splendor of the Arboretum. Tours are led by trained Arboretum guides and last from 60 to 90 minutes. Topics include plants of seasonal interest, Foster Island ecology, native plants, and ethnobotany. Tours are available year-round between 10 a.m. and 3 p.m., seven days a week. Fees are $15 per group of 15 or $10 for Arboretum Foundation members. Phone 206-543-8801 to reserve a guide; three weeks advanced reservation required.

Weekend Walks at One

Guided walks, held the first Sunday of each month at 1 p.m., highlight the plants of seasonal interest, history and collections of the Washington Park Arboretum. The walks depart from Graham Visitors Center. Call ahead to ensure availability, 206-543-8801.

events calendar FOR AUTUMN 2003

OCTOBER

1 WA Butterfly Association, 7 p.m., CUH

6 Miller Library Drop-In Tour, 7 p.m., CUH
Ornithological Society, 7 p.m., CUH
Iris Society, 7:30 p.m., CUH

8 NHS Lecture, 7 p.m., CUH

9 Rock Garden Society, 6:30 p.m., CUH

13 Orchid Society, 7 p.m., CUH

14 PS Mycological Society, 7:30 p.m., CUH

16 **Mosquitoes, Diseases, and You**, 7 p.m., CUH

19 Cascade Cactus & Succulent Soc., 2 p.m., CUH

21 **To Clip or Not to Clip**, 7 p.m., CUH

23 **Forcing Etc. with Katherine Whiteside**, 7 p.m., CUH

25 **The Beauty of Bamboo**, 10 a.m., CUH

27 PS Bonsai Association, 7 p.m., CUH

28 Assoc. for Women in Hort., 6:30 p.m., CUH

30 **Remarkable Trees of the World,** 7 p.m., WPA

NOVEMBER

3 Miller Library Drop-In Tour, 7 p.m., CUH
Ornithological Society, 7 p.m., CUH
Iris Society, 7:30 p.m., CUH

4 WA Native Plant Society, 7 p.m., CUH

5 WA Butterfly Association, 7 p.m., CUH
The Allure of Alliums, 7 p.m., CUH

6 **How Mother Nature Shapes Gardens,** 7 p.m., CUH

8 **Seasonal Soups from Kaspar**, 10 a.m., CUH

10 Orchid Society, 7 p.m., CUH

11 **Garden Inspired Holiday Decor**, 7 p.m., CUH
PS Mycological Society, 7:30 p.m., CUH

12 NHS Lecture, 7 p.m., CUH

13 Rock Garden Society, 6:30 p.m., CUH

15 **Native Tree Walk**, 10 a.m., WPA

16 NW Perennial Alliance, noon, CUH
Cascade Cactus & Succulent Soc., 2 p.m., CUH
Seattle Audubon Society, 7 p.m., CUH

18 Seattle Rose Society, 7:30 p.m., CUH

19 **Olmsted Lecture,** 7 p.m., CUH

24 PS Bonsai Association, 7 p.m., CUH

25 Assoc. for Women in Hort.., 6:30 p.m., CUH

DECEMBER

1 Miller Library Drop-In Tour, 7 p.m., CUH
Ornithological Society, 7 p.m., CUH

2 **Intro to Landscape Design-part 1**, 7 p.m., CUH

3 WA Butterfly Association., 7 p.m., CUH

4 **Intro to Landscape Design-part 2**, 7 p.m., CUH

6 **Intro to Landscape Design-part 3**, 9 a.m.

8 Orchid Society, 7 p.m., CUH

11 Rock Garden Society, 6:30 p.m., CUH

registration FOR CLASSES AND PROGRAMS

To Register: Please complete and return the registration form, along with your payment to the Center for Urban Horticulture. You may also register by phone using Visa or MasterCard, 206-685-8033.

Refunds: Requests for refunds on events not attended must be made in advance in writing, by phone, fax, or in person. Requests received fewer than 7 days from the first class meeting have a 25% handling fee deducted. No refunds can be made after the first class meeting. If a program is cancelled for any reason, a full refund will be made to all enrollees. Refunds may take four weeks to process.

Returned Checks: A $25 service fee will be charged for returned checks.

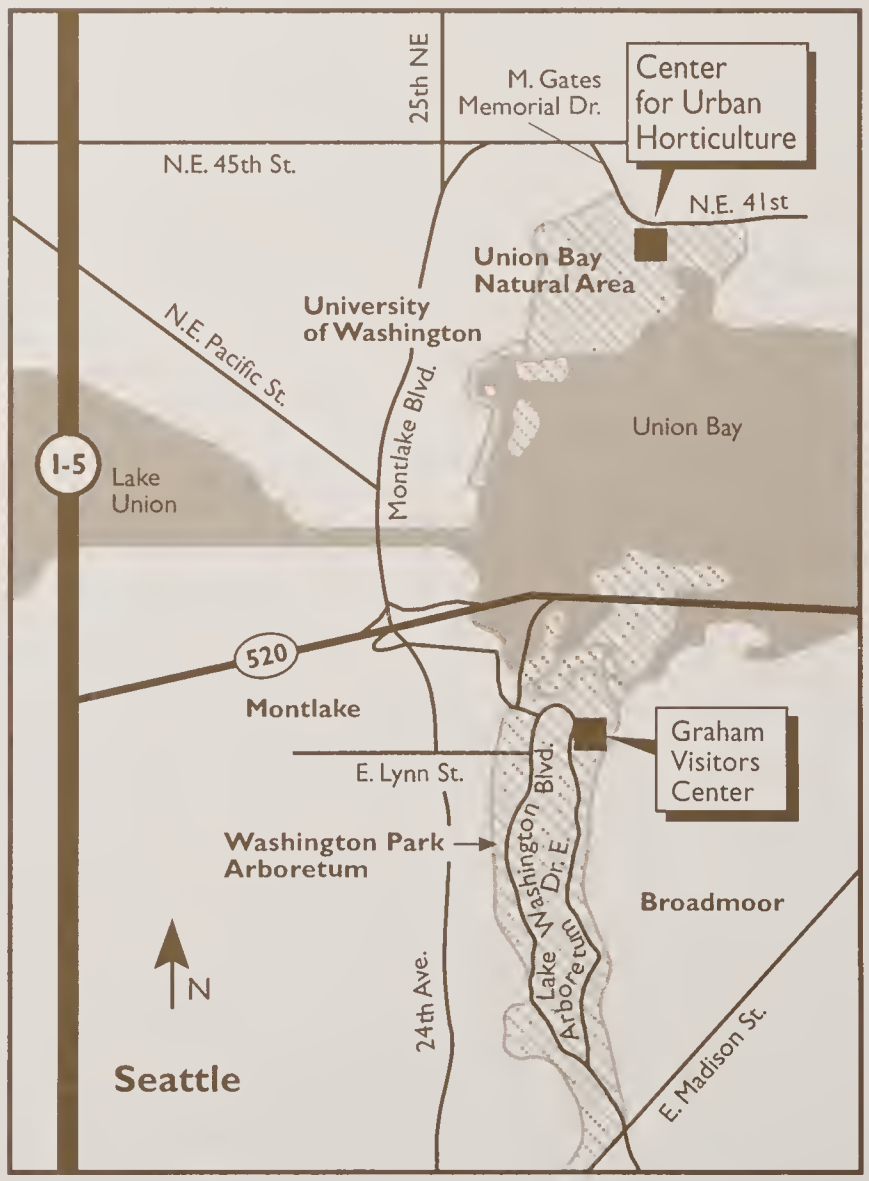
Special Needs: To request disability accommodation, please contact the Disability Services Office at least ten days in advance of an event: 206-543-6450 (voice); 206-543-6452 (TTY); or by e-mail at *dso@u.washington.edu.*

Class Locations and Parking: Program locations are listed with each program description. The Graham Visitors Center at Washington Park Arboretum is located at 2300 Arboretum Drive East. Douglas Classroom, NHS Hall and the other meeting facilities at Union Bay are located at 3501 N.E. 41st Street. Prepaid parking is located adjacent to the buildings.

Center for Urban Horticulture

Union Bay Campus
3501 NE 41st Street
Box 354115
Seattle, WA 98195-4115
206-543-8616 (phone)
206-685-2692 (fax)
www.urbanhort.org

Washington Park Arboretum
2300 Arboretum Drive East
Box 358010
Seattle, WA 98195-8010
206-543-8800 (phone)
206-616-2871 (fax)
www.wparboretum.org



REGISTRATION FORM

CENTER FOR URBAN HORTICULTURE AUTUMN 2003

PROGRAM	FEE	AF MEMBER	# PEOPLE	TOTAL FEE
HORTICULTURE PROGRAMS				
Forcing, Etc. with Katherine Whiteside	$12	$12		
The Beauty of Bamboo	$25	$22		
Remarkable Trees of the World with Thomas Pakenham	$12	$12		
Gardening Here: How Mother Nature Shapes our Gardens	$25	$22		
Seasonal Soups with Kaspar	$40	$40		
Garden-Inspired Holiday Decor	$25	$22		
Native Tree Walk	$25	$22		
The Olmsted Brothers & Their NW Peers with David Streatfield	$12	$12		
Introduction to Landscape Design	$65	$65		
PRACTICAL GARDENING LECTURES				
To Clip or Not To Clip	$10	$10		
Mosquitoes, Diseases, and You	$10	$10		
The Allure of Alliums	$10	$10		

TOTAL FEE $

PAYMENT

☐ Check (payable to *University of Washington*) ☐ Visa ☐ MasterCard

CREDIT CARD NUMBER EXPIRATION DATE

NAME ON CARD

GENERAL INFORMATION

NAME

ADDRESS CITY STATE ZIP

DAY PHONE EVENING PHONE

FAX EMAIL

Mail payment and registration to:
Urban Horticulture Courses
University of Washington
Box 354115
Seattle, WA 98195-4115

You may also register in person at:
Union Bay campus
3501 NE 41st Street
Mon.–Fri., 8:30 a.m. to 5:00 p.m. or
phone 206-685-8033

Registrations are filled in the order received. Enrollment is limited. Classes fill rapidly, so register early.

director's notes

After over two years, the welcomed noise of construction begins with a ground-breaking on October 1 at CUH. Merrill Hall is being rebuilt! CDK Construction Services of Duvall is the general contractor on the project. Construction should take about a year. We are currently scheduled to move into Merrill Hall next September.

The implementation of the Arboretum Master Plan is moving along as well. Earlier this year Dean Bruce Bare, Parks Superintendent Ken Bounds, and Arboretum Foundation President Fred Isaac developed a "Working Together Agreement" to outline how the three entities would cooperate to implement the Master Plan. Meetings through the spring and early summer, commissioned work by The Portico Group led by Dennis Meyer and oversight by Jerry Ernst has resulted in an Implementation Plan. Within this plan, projects are prioritized and packaged. The plan is available for review at *http://depts.washington.edu/wpa/implementation.htm*.

We were disappointed when the search for a new Director for the Center failed; however, we are committed to continuing to realize the goals and dreams of both the Union Bay and Washington Park components of the Center.

TOM HINCKLEY, PhD, DIRECTOR, CENTER FOR URBAN HORTICULTURE

UNIVERSITY OF WASHINGTON CENTER FOR URBAN HORTICULTURE

The CUH mission is "to apply horticulture to natural and human-altered landscapes to sustain natural resources and the human spirit."

- **Continuing and Public Education**
- **Douglas Research Conservatory**
- **Elisabeth C. Miller Library**
- **Otis Douglas Hyde Herbarium**
- **Undergraduate and Graduate Education**
- **Union Bay Gardens and Natural Area**
- **Rare Plant Care and Conservation**
- **Sustainable Community Landscapes**
- **Washington Park Arboretum**

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URBAN HORTICULTURE NEWSLETTER, VOL. 20, NO. 4

CUH/WPA Continuing & Public Education Staff:
Sue Nicol, Outreach Coordinator
Jean Robins, Program Coordinator
Sandy Kirchner, Assistant Outreach Coordinator
Chris Berry, Education Coordinator (Youth & Community Outreach)
Shawna Zuege, Arboretum Education Program Assistant

CUH/WPA Building & Rentals Management Staff:
Becky Johnson, CUH Facilities Manager
Ray Larson, CUH Facilities Coordinator
Brett Mercier, WPA Building Services Coordinator

CENTER *for* URBAN HORTICULTURE

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